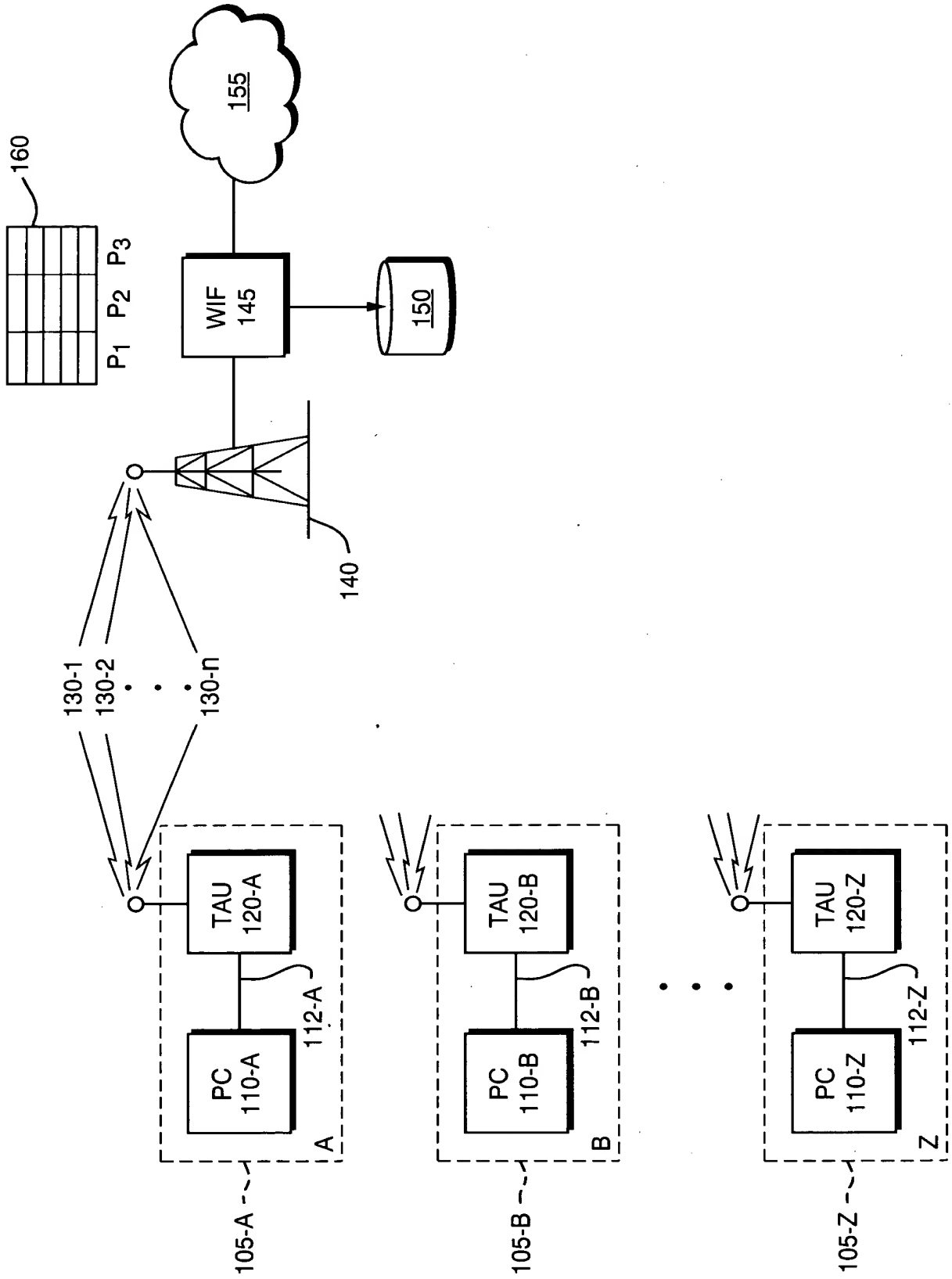
155
160
P1 P2 P3
WIF 145
150
140
130-1
130-2
130-n
TAU 120-A
PC 110-A
112-A
A
105-A
TAU 120-B
PC 110-B
112-B
B
105-B
TAU 120-Z
PC 110-Z
112-Z
Z
105-Z

FIG. 1

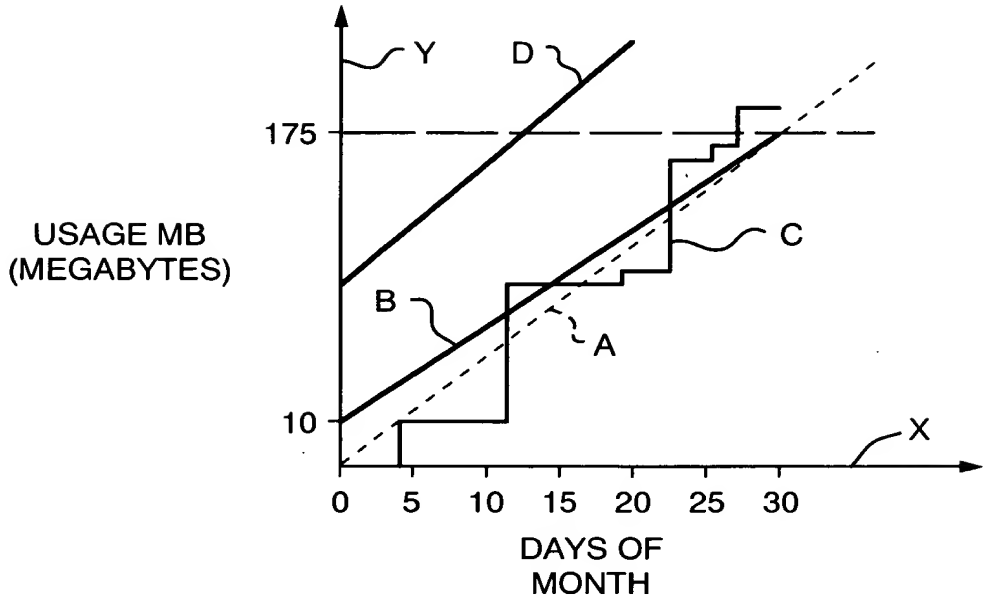

FIG. 2

PRIORITY LEVEL	MAX. TIME FOR CONTINUOUS TRANSFER
1	600 SECONDS
2	120 SECONDS
3	30 SECONDS

FIG. 3

EXPRESS MAIL NO. EV 324 875 250

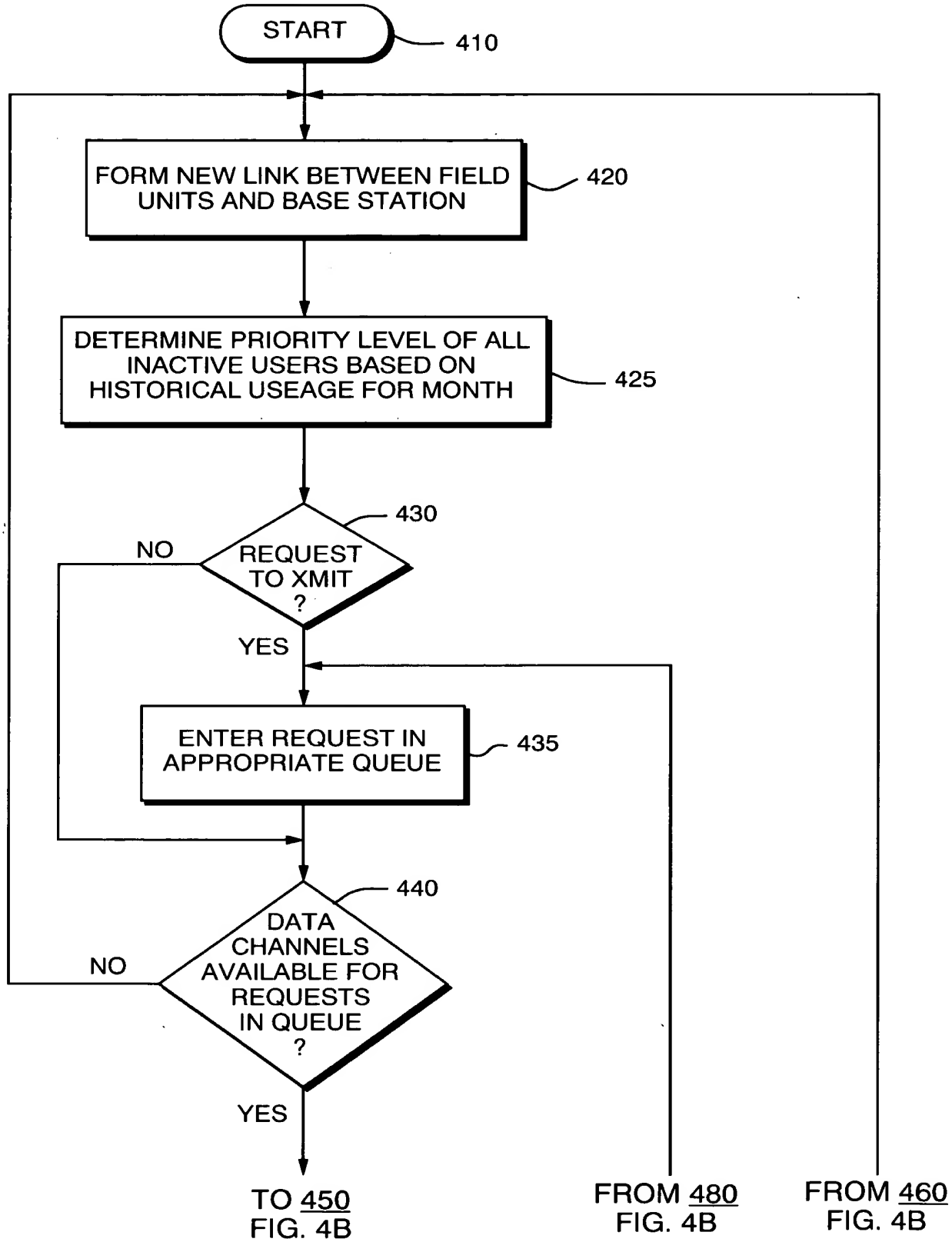
START
410
FORM NEW LINK BETWEEN FIELD UNITS AND BASE STATION
420
DETERMINE PRIORITY LEVEL OF ALL INACTIVE USERS BASED ON HISTORICAL USEAGE FOR MONTH
425
430
REQUEST TO XMIT ?
NO
YES
ENTER REQUEST IN APPROPRIATE QUEUE
435
440
DATA CHANNELS AVAILABLE FOR REQUESTS IN QUEUE ?
NO
YES
TO 450 FIG. 4B
FROM 480 FIG. 4B
FROM 460 FIG. 4B

FIG. 4A

Attorney Docket No. 10746-250-8748/2460

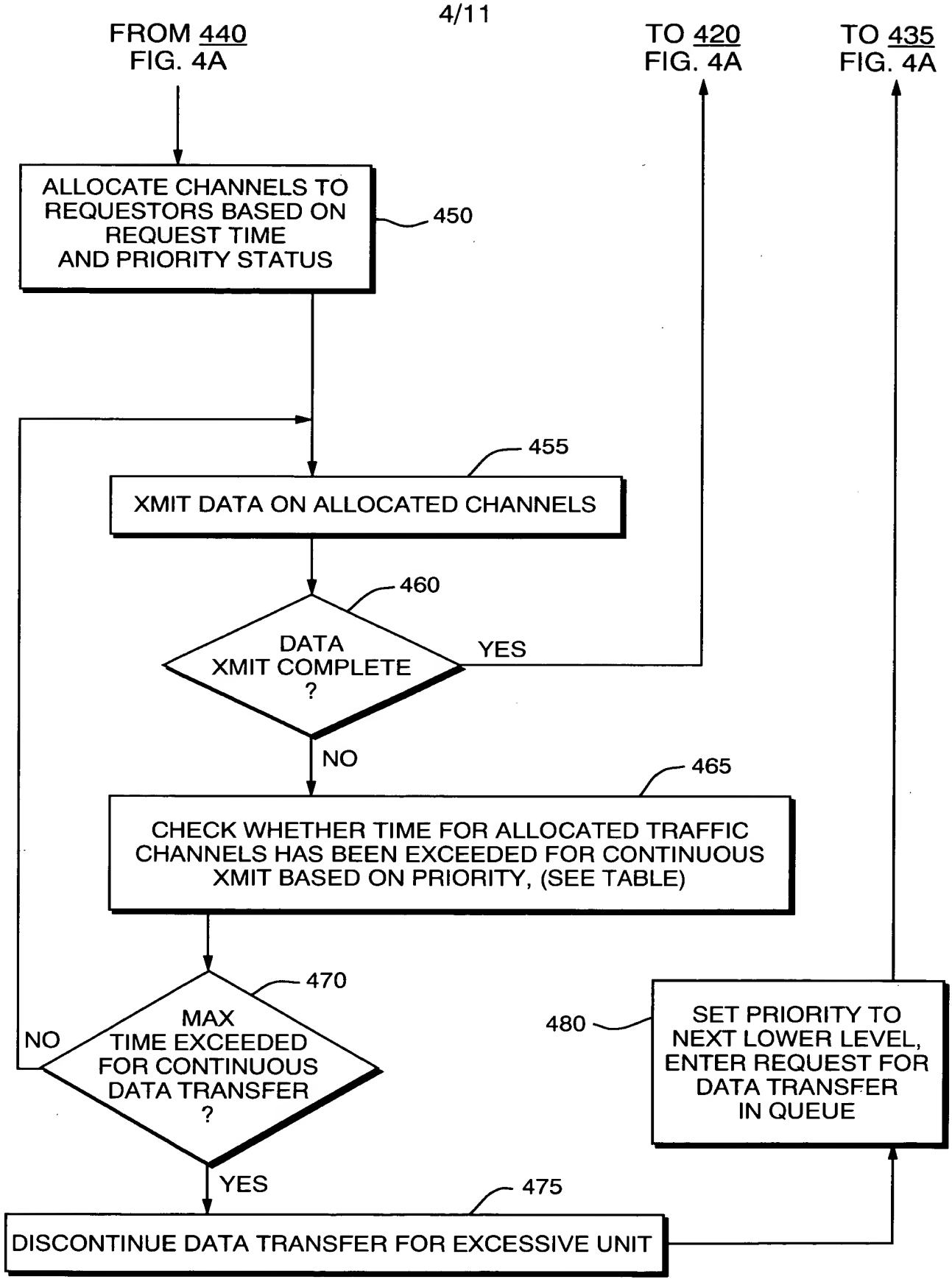

FIG. 4B

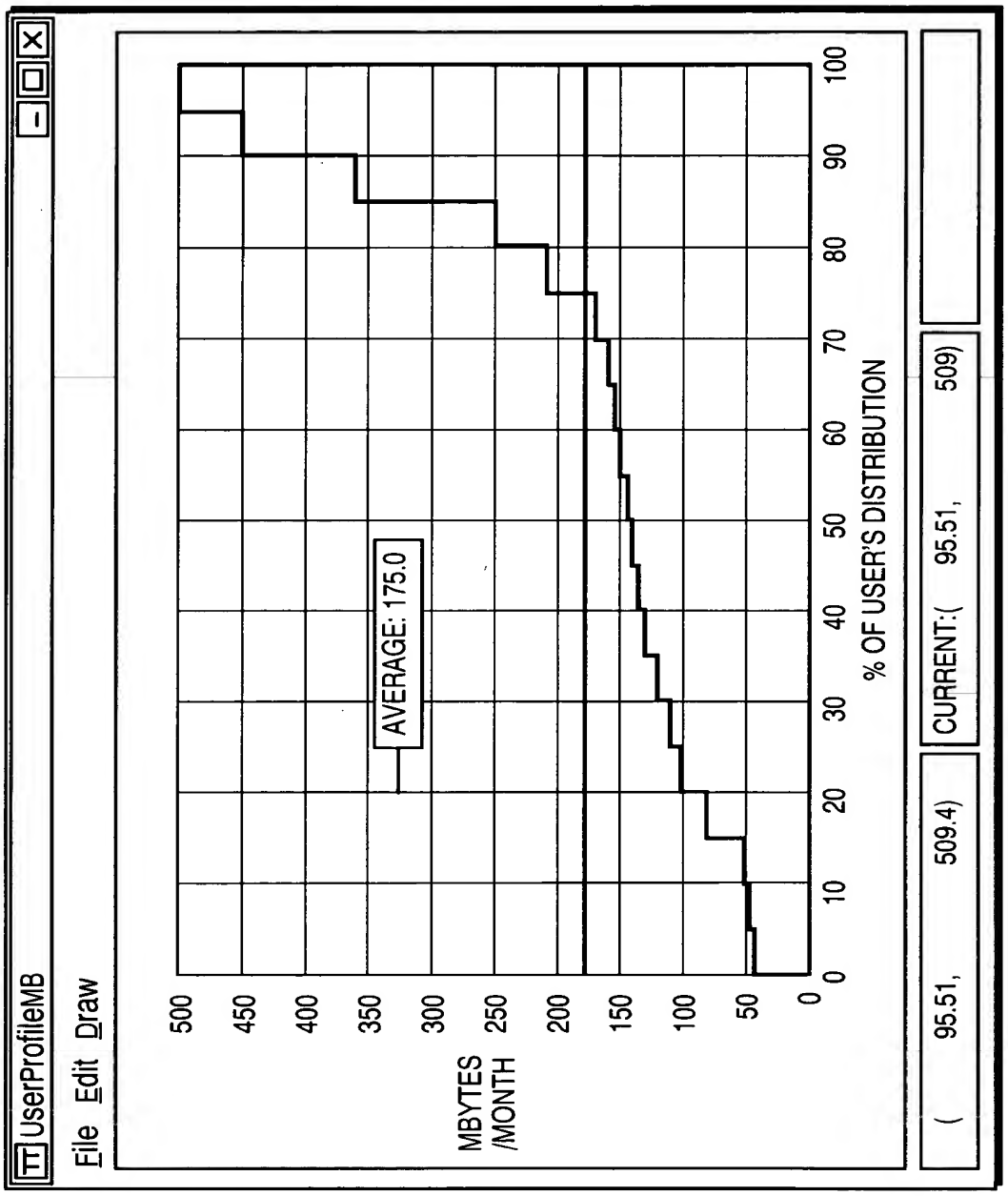
UserProfileMB
File Edit Draw
MBYTES /MONTH
500
450
400
350
300
250
200
150
100
50
0
AVERAGE: 175.0
0
10
20
30
40
50
60
70
80
90
100
% OF USER'S DISTRIBUTION
(95.51, 509.4)
CURRENT:(95.51, 509)

FIG. 5

TOT250 "87h87760

Application	Unit of Work	Est.units/mo (during peak load time, given an acceptable speed)	Unit size in Kbytes	Mo. vol. (Mbytes during peak load time)	Accept. speed (kbps-fwd)	Accept. speed (kbps-rev)	Theor. Resp. time for unit (sec)
Short Messages	Message	100	0.1	0.01	14	14	0.06
WAP and short e-mail	Message	200	0.2	0.04	14	14	0.11
e-mail	Letter	200	1	0.20	28	28	0.29
e-mail with attachments (Send&Receive)	Letter	50	200	10.0	128	128	12.50
Web Browsing (articles, text information, etc.)	Page	300	20	6.0	128	28	1.25
Web Browsing (e-bay, news, searching products, etc.)	Page	800	50	40.0	256	28	1.56
Web Downloads (programs, Applications)	Program	4	5000	20.0	384	56	104.17
Distant Learning	Lesson	4	3000	12.0	256	128	N/A
MP3 downloads and learning	Song	8	4000	32.0	384	384	83.33
Internet radio	Minute of listening	200	480	96.0	64	28	N/A
Video conferencing	Minute of session	60	2880	172.8	384	384	N/A

FIG. 6

App No.: 09/778,478
Title: Grade of Service and Fairness Policy...
Inventors: Carlo Amalfitano

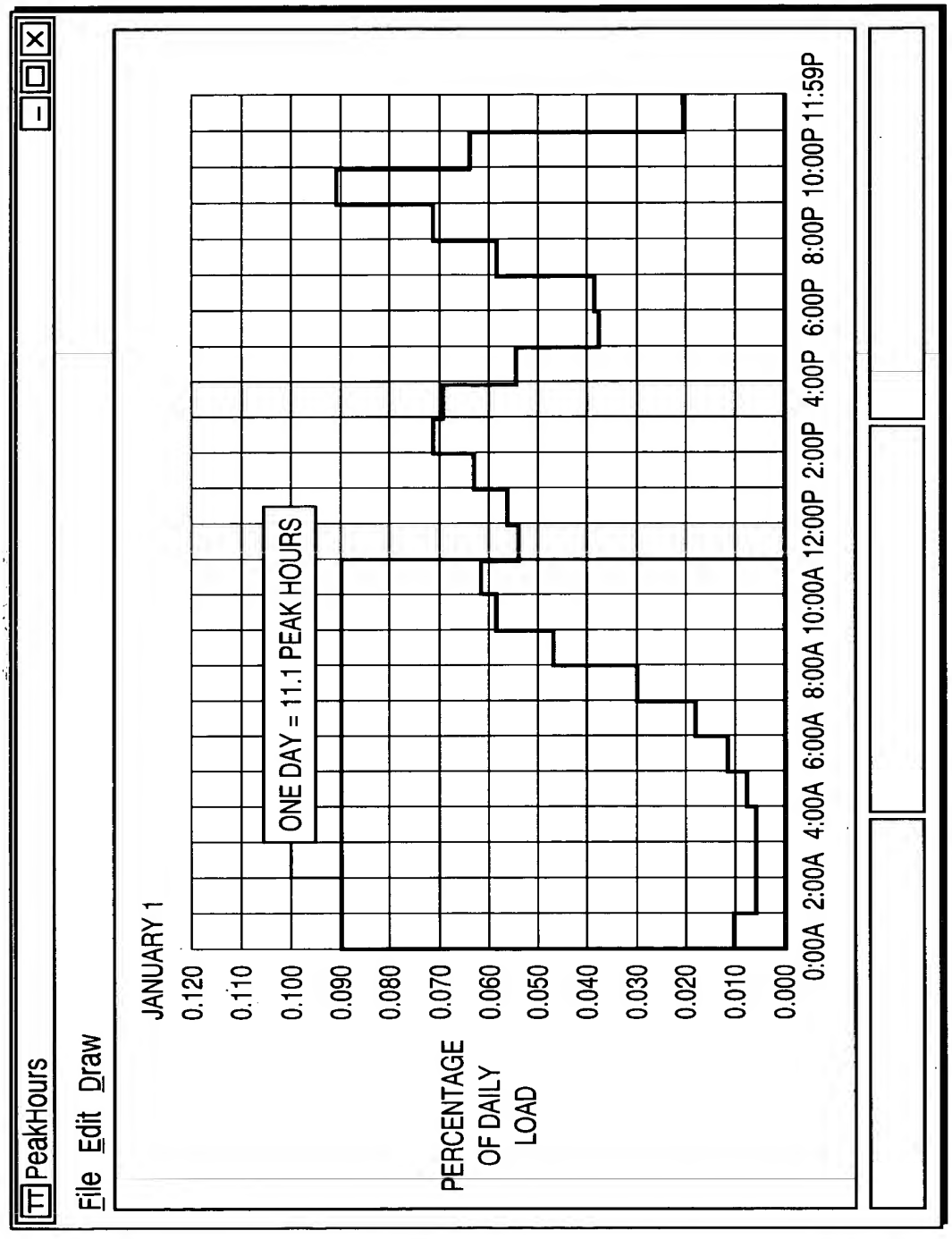
PeakHours
File Edit Draw
JANUARY 1
ONE DAY = 11.1 PEAK HOURS
PERCENTAGE OF DAILY LOAD
0.120
0.110
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
0:00A 2:00A 4:00A 6:00A 8:00A 10:00A 12:00P 2:00P 4:00P 6:00P 8:00P 10:00P 11:59P

FIG. 7

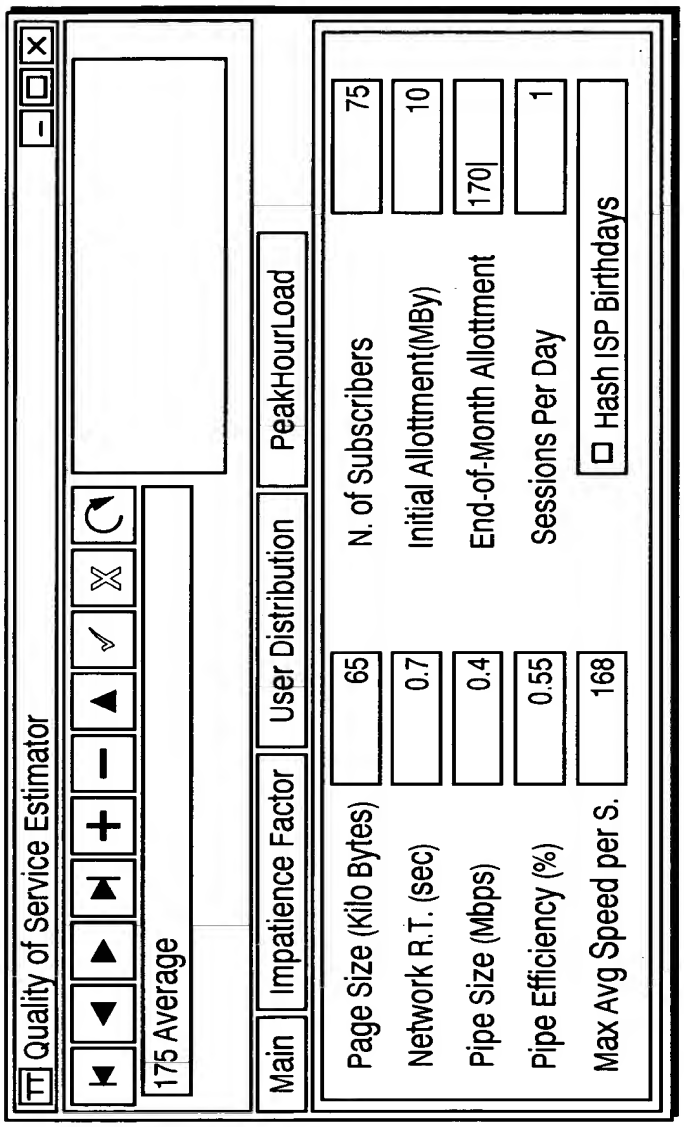

FIG. 8

EDT2510-8478-2760

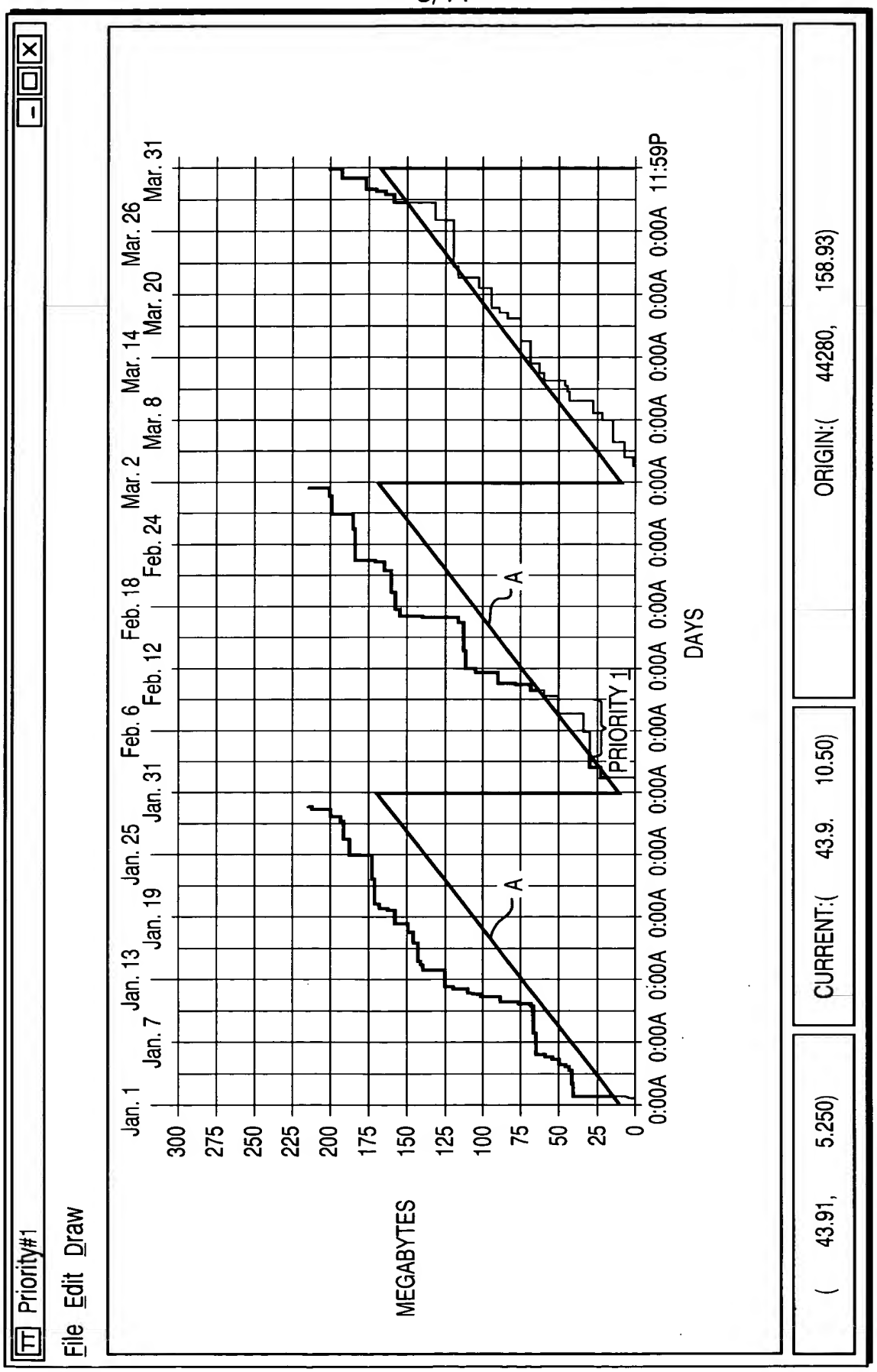
Priority#1
File Edit Draw
MEGABYTES
DAYS
PRIORITY 1
A
A
Jan. 1
Jan. 7
Jan. 13
Jan. 19
Jan. 25
Jan. 31
Feb. 6
Feb. 12
Feb. 18
Feb. 24
Mar. 2
Mar. 8
Mar. 14
Mar. 20
Mar. 26
Mar. 31
0:00A
11:59P
300
275
250
225
200
175
150
125
100
75
50
25
0
(43.91, 5.250)
CURRENT:(43.9. 10.50)
ORIGIN:(44280, 158.93)

FIG. 9

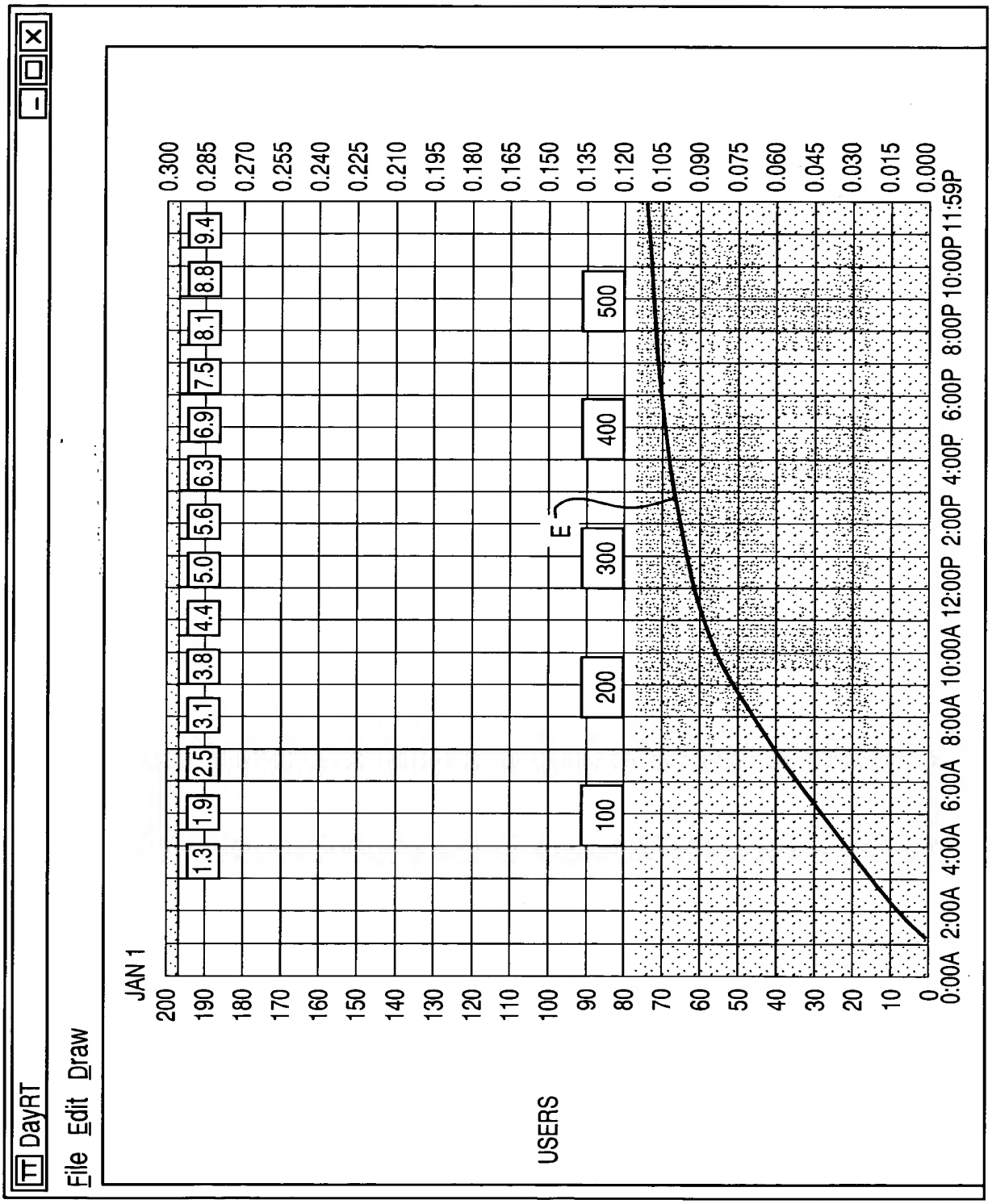
DayRT
File Edit Draw
JAN 1
USERS
E
0.300 0.285 0.270 0.255 0.240 0.225 0.210 0.195 0.180 0.165 0.150 0.135 0.120 0.105 0.090 0.075 0.060 0.045 0.030 0.015 0.000
200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
1.3 1.9 2.5 3.1 3.8 4.4 5.0 5.6 6.3 6.9 7.5 8.1 8.8 9.4
100 200 300 400 500
0:00A 2:00A 4:00A 6:00A 8:00A 10:00A 12:00P 2:00P 4:00P 6:00P 8:00P 10:00P 11:59P

FIG. 10

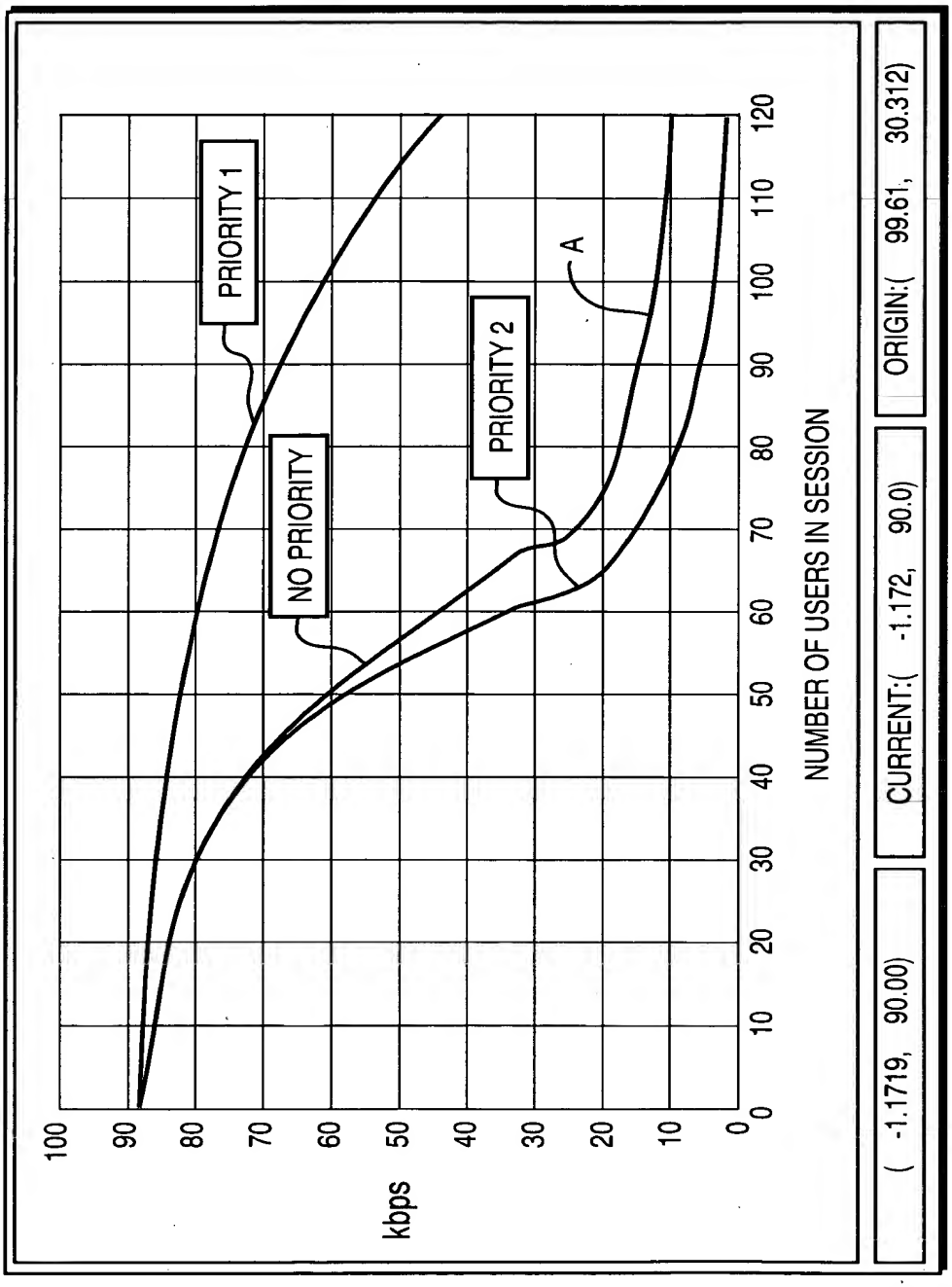
PRIORITY 1
NO PRIORITY
PRIORITY 2
A
kbps
NUMBER OF USERS IN SESSION
(-1.1719, 90.00)
CURRENT:(-1.172, 90.0)
ORIGIN:(99.61, 30.312)

FIG. 11